

**IP Video Server  
CC-8010, CC-8011, CC-8012**

**User`s Manual  
Firmwareversion 1.9.5  
Document Version 1.4**



# About This Guide

The User's Manual provides functionality and instructions for Convision IP video servers CC-8010, CC-8011 and CC-8012 employing firmware version 1.9.5.

## Before Using the IP Video Server

- ✓ Check the PC requirements
- ✓ Review the OS platform requirements
- ✓ Read an special and import precautionary information
- ✓ Having basic knowledge of network setup and configuration will be helpful

## Important Announcements

NOTE: This icon represents a tip for operation.

CAUTION: This icon stands for an action that could affect an operation or mildly impair the system.

WARNING: This icon indicates an action that will likely impair the system.



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# 1 INTRODUCTION

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This document covers functionality and usage of the web interface for IP video servers with firmware version 1.9.5. Specific model information can be found in the model specification which can be found in the Installation Guide for the corresponding model.

## 1.1 Model Differences

Although most of the operations and functions being the same amongst models, there are some differences. Differences are highlighted where applicable.

The following table highlights primary functionality that differs between models. These differences will determine if certain items and settings will exist in the Live View and/or Settings page.

	SD Card	PTZ Capable	WiFi	Color OSD	EtroLink
<b>Video Server</b>					
CC-8010		x			x
CC-8011		x	x		x
CC-8012	x	x			

For example, if a server do not support WiFi (e.g. CC-8010), then the WiFi settings option will not be present in the Settings page.



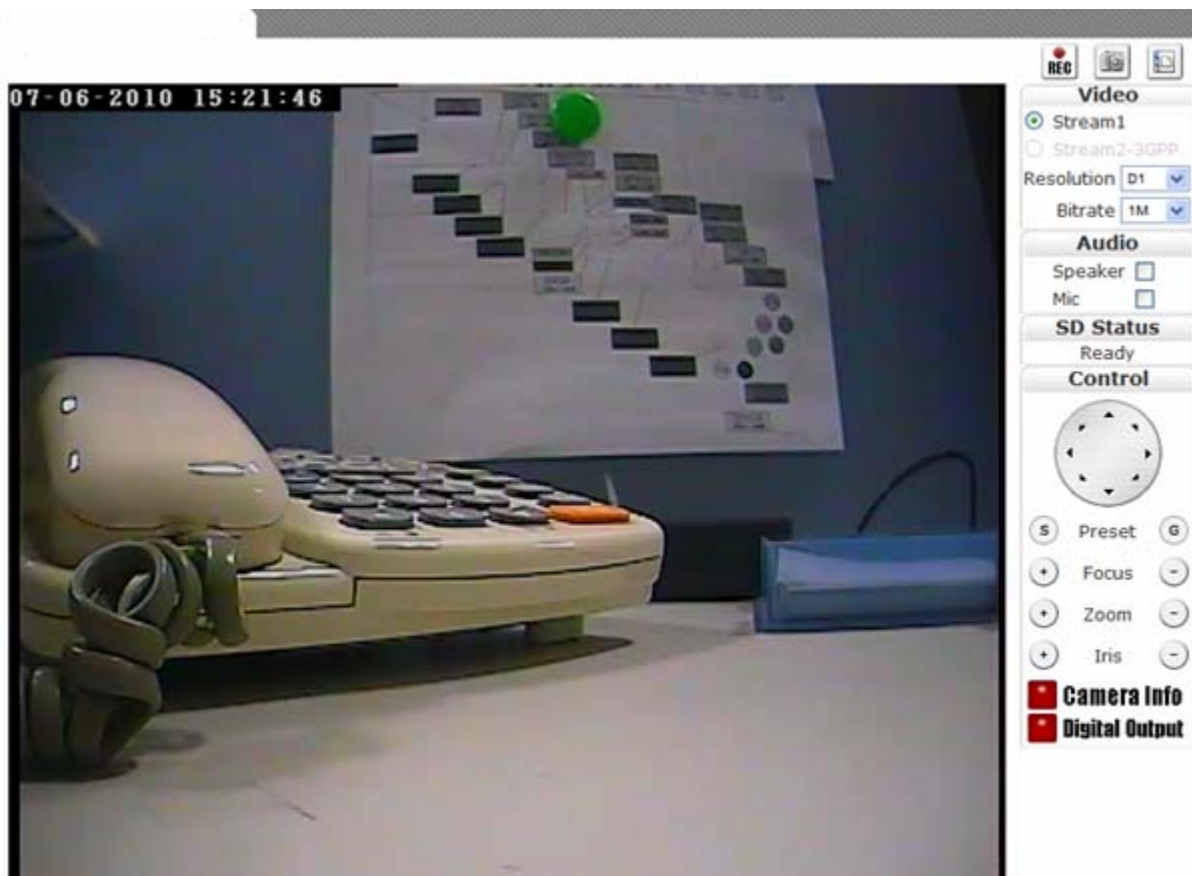
## 2 THE LIVE VIEW

---

The IP server web interface is made up of two main pages: the Live View page and the Settings page. The Live View provides the current display from the IP server along with selected settings, configuration and functionality.

After logging into the IP server via the browser, the user is first presented with the Live View page.

Below is an example of the Live View page. Following the screenshot is a discussion of the different areas within the Live View page.



### 2.1 OSD (On-Screen Display)

In the top left corner is the OSD (On-Screen Display).

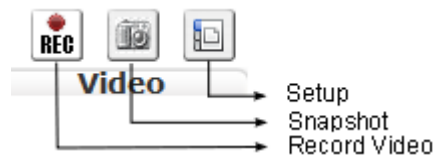
**05-10-2010 17:48:42**

By default, the date and time are displayed in the format MM-DD-YYYY HH24:MI:SS; the server name can also be displayed (see “OSD” section for information on altering the OSD settings).



## 2.2 Setup, Snapshot and Record Video

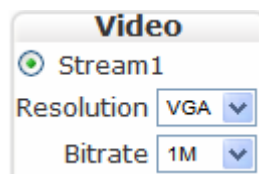
In the top right corner of the screen are three controls.



- “Setup” switches from the Live View page to the administration configuration page where most of the IP server configuration is performed.
- “Snapshot” can be used to take snapshot pictures. The files are stored locally on the PC.
- “Record Video” starts and stops recording of video. The files are stored locally on the PC.

## 2.3 Video

Below the Setup/Snapshot/Record controls are the video and resolution controls.

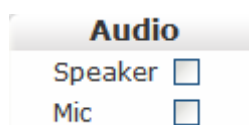


“Stream2” will also be displayed if it has been enabled (see the Settings Page “Video” section for more information).

The resolution and bit rate can be modified here. In the drop down box, choose one of the options.

Changes take place a few seconds after modification; the image on the screen might briefly pause while changes are implemented.

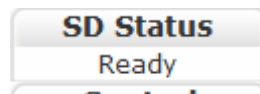
## 2.4 Audio



The “Audio” check boxes enable/disable speaker and microphone (Mic) capabilities. The appropriate cables need to be connected into the back of the server. (See the “Audio” section for more information).



## 2.5 SD Status



The "SD Status" is the secure digital (SD) card status. If no card is present then the status will be "Invalid". See the "SD Card" section for more information.

## 2.6 Control (PTZ Controls)

The Control section allows operating the PTZ controls from the Live View.

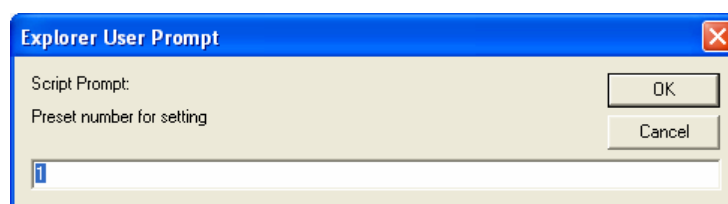


The round dial with directional arrows controls the directional movement of the camera.

"Preset" is used for configuring and using camera directional presets. There are two buttons: **S** and **G**.

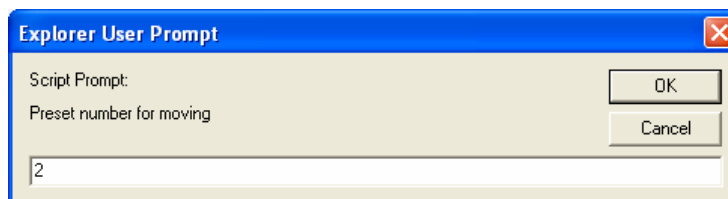
Focus, zoom and iris controls are modified using the + and - buttons.

**S** is used to set a specific location view. First position the camera to view a specific area. Next click **S** which displays a window prompting the ID to assign the specific preset.



Enter an alphanumeric ID for a specific preset and click **OK**.

**G** is used to move the camera to a specific preset. Click **G**, enter the desired preset ID and click **OK**.





## 2.7 Camera Info and Digital Output

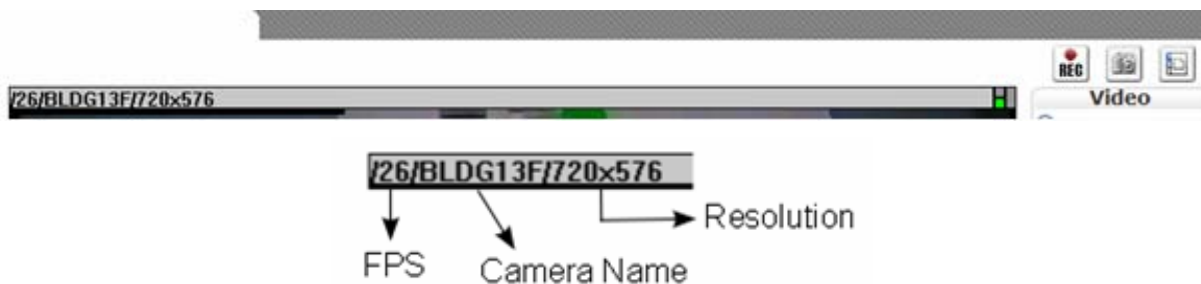
### Camera Info

The 2 buttons on the bottom right are “Camera/Server Info” and “Digital Output”.



The “Camera Info” button displays video information such as frame rate (fps), model name, and resolution. This information is displayed where the OSD information is normally displayed, the top left corner.

Below are two screenshots displaying when the “Camera Info” button is enabled. Note that the OSD information is no longer viewable when the button is enabled.



### Digital Output

The “Digital Output” control is a toggle button that sends a Digital Out signal. This functionality is available if a corresponding device is connected to the IP camera using the digital I/O terminal.

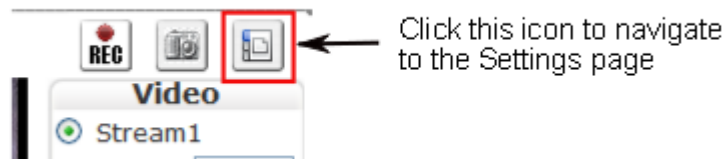


### 3 THE SETTINGS PAGE – BASIC

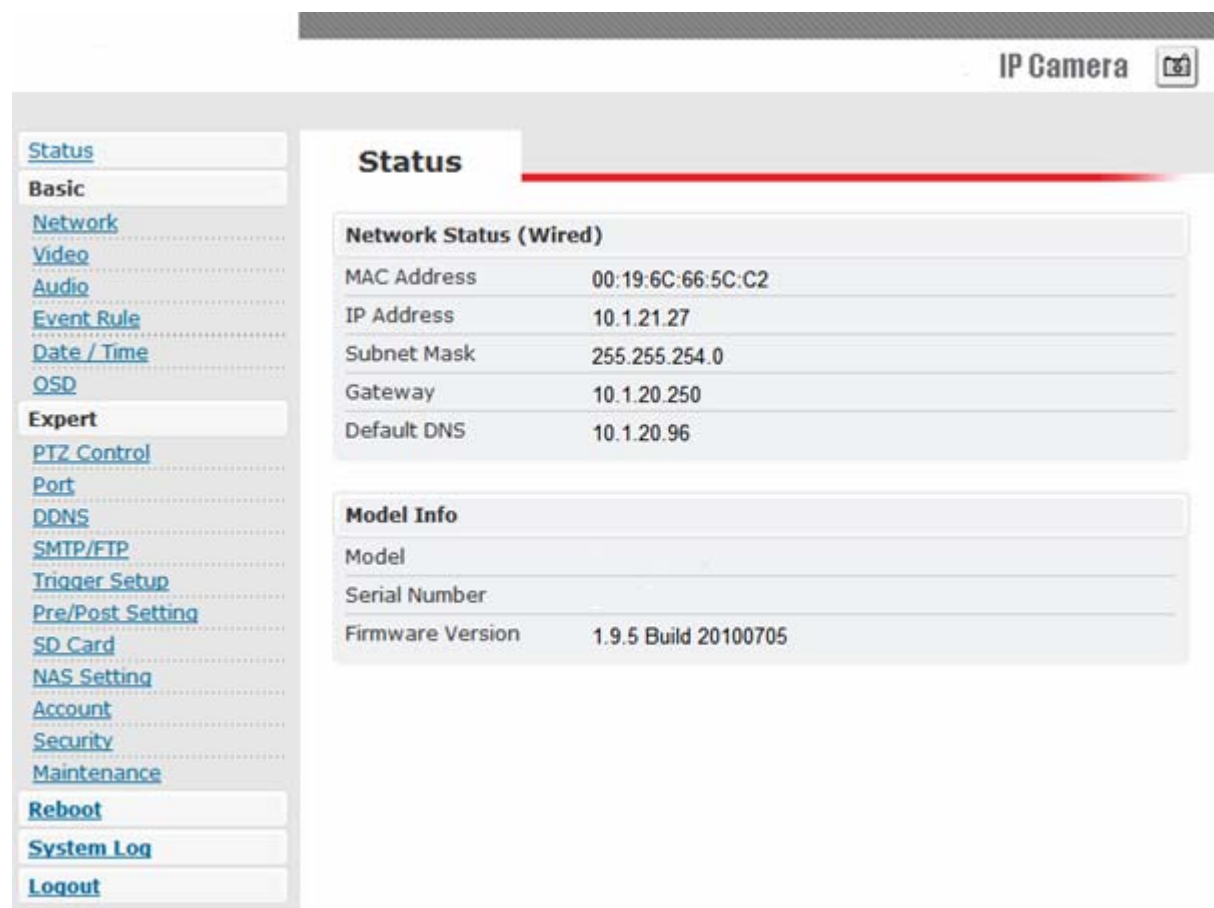
The web interface is made up of two main pages: the Live View page and the Settings page. The Live View page interface was introduced in the previous section.

The Settings page is primarily used for viewing and configuring the IP camera's settings.

From the Live View page, click the Settings page icon at the top right side:

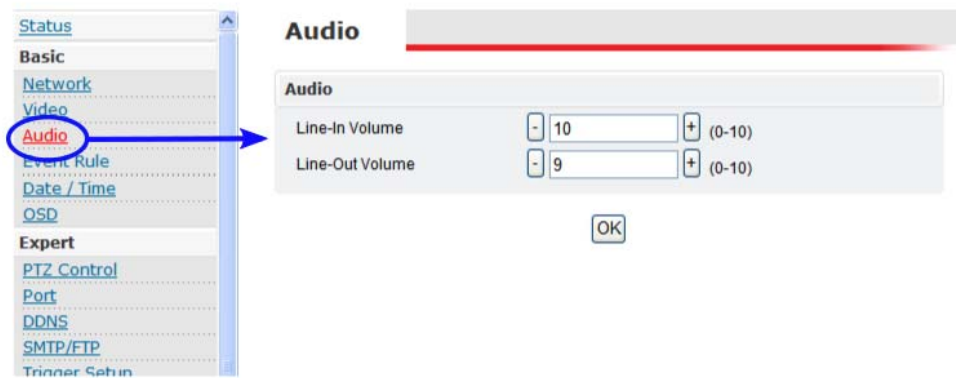


Below is a screenshot of the Settings page interface. The initial page displayed is the "Status" page.



The left side of the page lists the different setting sections which can be viewed and modified. For example, clicking "Audio" will display the "Audio" configuration settings in the right pane.

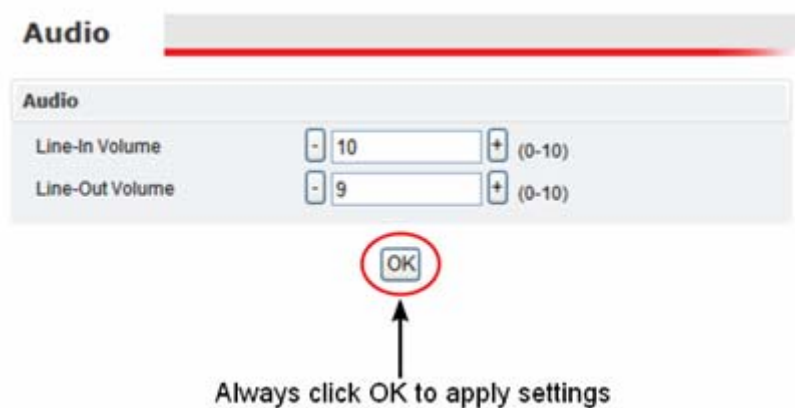




From the Settings page, click the Live View page icon (highlighted in red in the upper right corner) to return to the Live View page.



 Configuration changes in the Settings page require clicking the OK button. Otherwise, changes will not be applied.



The following discusses the different basic configuration options within the Settings page.



## 3.1 Status

The screenshot shows the 'Status' page of a network configuration interface. It features a title bar 'Status' with a red underline. Below it, there are two main sections: 'Network Status (Wired)' and 'Model Info'. The 'Network Status (Wired)' section contains a table with the following information:

MAC Address	00:19:6C:AA:01:CC
IP Address	192.168.0.21
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Default DNS	168.95.1.1

The 'Model Info' section contains the following information:

Model	
Serial Number	
Firmware Version	1.9.5 Build 20100622

The Status page is always the initial page displayed when switching to the configuration view. Various basic information related to the IP server is displayed here.

The page only displays information; no changes can be made here.

## 3.2 Network

There are three available types of wired network connections available: STATIC, DYNAMIC and, PPPoE.

Please confirm all network related settings with the network administrator prior to making any changes.

### Static IP

The screenshot shows the 'Network' configuration page. It has a title bar 'Network' with a red underline. Below it, there are three radio buttons for connection types: 'Dynamic IP', 'Static IP' (which is selected and highlighted with a red box), and 'PPPoE'. Under 'Static IP', there are input fields for 'IP Address' (192.168.1.2), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.1.1), and 'Default DNS' (168.95.1.1). Under 'PPPoE', there are input fields for 'User ID' (pppoe\_user), 'User Password', 'Verify Password', and 'MTU' (1412). There are also radio buttons for 'DNS Server' (Manual and Auto, with Auto selected) and a text field for 'DNS' (168.95.1.1). At the bottom, there is a checkbox for 'Send mail when connecting success.' and a checkbox for 'Enable UPnP' (checked). An 'OK' button is at the bottom center.



1. Enter the IP Address.
2. Enter the Subnet Mask/Gateway/Default DNS
3. Be sure to press **OK** to save the new setting.
4. A window prompting a reboot will be displayed. Click **OK** to proceed with the reboot (or **Cancel** if you wish to return to the Network settings).
5. A timer will countdown the approximate time for reboot to complete. The page will be redirected to the live view page using the new IP address.



Use IP-Setup to find the MAC addresses after reboot and ensure the IP address is correct. If the IP was changed in web configuration, you must access the initial login page using the new IP after the reboot.

## Dynamic IP Address

**Network**

**Network**

☒ Dynamic IP  
☐ Static IP

IP Address: 192.168.0.28  
 Subnet Mask: 255.255.255.0  
 Gateway: 192.168.0.1  
 Default DNS: 168.95.1.1

☐ PPPoE  
 User ID: pppoe\_user  
 User Password:   
 Verify Password:   
 MTU: 1412  
 DNS Server: ☐ Manual ☒ Auto  
 DNS: 168.95.1.1  
☐ Send mail when connecting success.

Enable UPnP: ☒

**OK**

1. Select DHCP
2. Press **OK** button
3. Reboot will be required and automatically triggered after pressing **OK**.
4. A window prompting a reboot will be displayed. Click **OK** to proceed with reboot (or **Cancel** if you wish to return to the Network settings). A timer will countdown the approximate time for reboot to complete.

The browser will likely not reload since the IP is uncertain. The new IP address will likely need to be determined using IP-Setup and the IP server's MAC address. After determining the new IP address, use this IP address to access the web interface.



Always use IP-Setup to find the MAC addresses after reboot and double check the IP address. Make sure the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.



## PPPoE Settings

If the network supports PPPoE like xDSL, then PPPoE can also be used for connectivity.

**Network**

Dynamic IP

Static IP

IP Address 192.168.0.28

Subnet Mask 255.255.255.0

Gateway 192.168.0.1

Default DNS 168.95.1.1

PPPoE

User ID pppoe\_user

User Password

Verify Password

MTU 1412

DNS Server Manual Auto

DNS 168.95.1.1

☐ Send mail when connecting success.

Enable UPnP ☒

OK

1. Select PPPoE
2. Enter the PPPoE ID and password.
3. Enter the MTU (Maximum transmission unit)
4. The DNS server can be manually set or “Auto” can be used to automatically detect the DNS IP address.

If xDSL does not use static IP addresses, then DHCP should be used.

## UPnP

To enable UPnP (Universal Plug and Play) connectivity, check the “Enable UPnP” box. This will allow accessing the camera via UPnP connectivity from a computer.



## 3.3 Video

### Stream 1

**Video**

**Stream 1**   [Stream 2](#)   [Color Setting](#)

**Video Setting**

Stream Port	<input type="text" value="1852"/>
Stream Protocol	<input type="button" value="TCP"/>
Enable RTSP Authentication	<input type="checkbox"/>
Enable Multicast	<input type="checkbox"/>
Multicast Address	<input type="text" value="228.0.0.1"/>
Multicast Port	<input type="text" value="10000"/>
Multicast TTL	<input type="text" value="15"/>
Video Compression Type	<input type="button" value="H264"/>
Resolution	<input type="button" value="VGA"/>
Bitrate Type	<input checked="" type="radio"/> Constant Bitrate <input type="radio"/> Variable Bitrate
	<input type="button" value="1Mbps"/>
Frame Rate	<input type="button" value="30"/>
GOP Size	<input type="button" value="1 * FPS"/>

**Max Client Limit**

Max Number of Clients	<input type="text" value="5"/> (0 ~ 10)
-----------------------	---

### Video Setting

- Stream Port: Stream 1 port value setting; 1852 is the default.
- Stream Protocol: TCP and UDP(RTP)
- Enable RTSP Authentication: option available if UDP(RTP) protocol selected
- Enable Multicast: option available if UDP(RTP) protocol selected
- Multicast Address: option available if multicasting enabled; the default value is 228.0.0.1. Verify address with the network administrator before applying
- Multicast Port: option available if multicasting enabled; the default value is 10000. Verify address with the network administrator before applying
- Multicast TTL: TTL (Time To Live); option available if multicasting enabled; the default value is 15
- Video Compression Type: H264, MJPEG, MPEG-4
- Resolution: this setting can also be set from the live view page
- Bitrate Type: constant bit rates and variable bit rates. The Bitrate option is not present when using MJPEG video compression  
Constant values range 64Kbps to 4Mbps; 2Mbps is the default.



Variable values range from 15 to 51; this value is relative quality of video. 15 represents highest quality video, and 51 the lowest quality video.

- Image Quality: not displayed in above screenshot; only available when using MJPEG video compression
- Frame Rate: (Frames per Second) values range from 1 to 30
- GOP Size: GOP (Group Of Pictures); this function is designed for adjusting the ratio between “I” frames and “P” frames.

This option is not available when using MJPEG video compression.


A higher GOP size (i.e. 4 \* FPS) results in lower bandwidth consumption, while a lower GOP size provides better picture quality.


Video Servers also have an additional setting for NTSC and PAL.



The image shows a user interface element for 'Video Field Type'. It consists of a label 'Video Field Type' on the left. To its right are two radio buttons: 'NTSC' (which is selected, indicated by a filled circle) and 'PAL' (which is unselected, indicated by an empty circle). Further to the right is a rectangular button labeled 'Detect'.

Click **Detect**, and the video server will probe the camera and set the appropriate value.

 1M is recommended when using H.264; 1.5M is recommended when using MPEG-4.

 When mosaic or fragmentation occurs in the image, lower the frame rate or assign another level of image quality.

## Max Client

This function allows more than one user to have the access to the video stream. The relationship between bit rates, resolution, and the client amount is inversely related.

The maximum number of clients depends on the network bandwidth and the required video quality. Values can range from 0 to 10.



## Stream 2

Video		
Stream 1	Stream 2	Color Setting
<b>Video Setting</b>		
Stream Enable	<input checked="" type="checkbox"/>	
Stream Port	554	
Stream Protocol	TCP	
Enable RTSP Authentication	<input type="checkbox"/>	
Enable Multicast	<input type="checkbox"/>	
Multicast Address	228.0.0.2	
Multicast Port	11000	
Multicast TTL	15	
Video Compression Type	MJPEG	
Resolution		
Bitrate Type		
Frame Rate	1	
GOP Size		
<b>Max Client Limit</b>		
Max Number of Clients	10	(0 ~ 10)

With the exception of the “Stream Enable” checkbox and the “Stream Port”, the settings in stream 1 and 2 are the same (the above example do not reflect the default values).

If stream 2 is enabled, then this stream can also be viewed in the Live View page.

## Color Setting

**Note:** Color Settings vary between camera models. The following screen shot is from an IP camera with many of the video adjustment options for this firmware version. Some models may have more or only have a subset of these settings.

The color settings allow making adjustments to video quality. Any adjustments to a setting will automatically be displayed in the Color Setting preview window after a few seconds.


Click **OK** to apply any changes or **Reset** to rollback any unsaved changes.



## Video

**Stream 1****Stream 2****Color Setting**

**Color Setting**



Brightness	-	110	+	(0 ~ 255)
Contrast	-	40	+	(20 ~ 127)
Saturation	-	50	+	(0 ~ 127)
AEC	<input checked="" type="checkbox"/>			
AGC	<input checked="" type="checkbox"/>			
AWB	<input checked="" type="checkbox"/>			
Mirror	<input type="checkbox"/>			
Flip	<input type="checkbox"/>			
Lighting Frequency	60Hz ▾			
<input type="button" value="OK"/> <input type="button" value="Reset"/>				

- Brightness: Adjusts the brightness of the image.
- Contrast: Adjusts the variation in the intensity of an image.
- Saturation: Adjusts the intensity of color in the image.
- AGC: Auto Gain Control; gain helps brighten dark images.
- AEC: Enables auto exposure control.
- AWB: Enables the automatic white balance control.
- Mirror: Flip the image horizontally.
- Flip: Flip the image vertically.
- Lighting Frequency: Adjusts for flickering effect caused by artificial lighting. Options include 50Hz and 60Hz.

## DC Iris

If the IP camera is using a lens with a DC iris (auto iris) then the auto iris functionality will be displayed in the video settings.

**IRIS** ☒

- IRIS: check to enable auto iris



## 3.4 Audio

The audio settings control the level of audio in and out.

**Audio**

Line-In Volume - 10 + (0-10)

Line-Out Volume - 9 + (0-10)

OK

The values range from 0-10 (0 the minimum; 10 the maximum).

After changing the volume setting, click **OK** to apply the changes.

## 3.5 Event Rule

The IP servers CC-8010, CC-8011 and CC-8012 are capable of handling all standard events.

**Event Rule**

**Activated Event Rule**

Delete Delete All

**Trigger and Handler**

Digital Input	Digital Output	<b>[Settings for Motion Detection]</b> Enable Motion Detection: <b>off</b> Detect Area 1: <b>off</b> Sensitivity: <b>0</b> Detect Area 2: <b>off</b> Sensitivity: <b>0</b> Detect Area 3: <b>off</b> Sensitivity: <b>0</b> Change Settings
Motion Detection	PTZ Preset	
Periodic Timer	Email Notification	
Network Loss	Record	
Power Loss		

Add Delete Modify

OK



## Events Handled

- Digital Input: is a circuit which is defined as on (Normal Open (N.O.)) or closed (Normal Close (N.C.))
- Motion Detection: If a motion is detected in the defined areas, an event will be triggered.
- Periodic Timer: An event will be triggered following the schedule of the pre-defined time interval. For example, if the time interval is set to 30 seconds, the event will be triggered once every 30 seconds.
- Network Loss: When network loss is detected, an event will be triggered.
- Video Loss: When a video server detects a loss of video input from camera.
- Power Loss: When system power loss is detected, and event will be triggered. The e-mail notification includes the duration of the power loss.

## Actions Triggered

- Digital Output: Activate digital output.
- E-mail Notification: E-mail can be sent based on occurrence of an event listed out in "Rule Lists".
- Record: When an event is triggered, the system will record streaming video to an FTP Server or NAS storage server.

Certain triggers (Digital Input, Motion Detection and Periodic Timer) also have settings related to that specific event. Below highlights event settings related to the Motion Detection trigger.

## Events and Actions

The following table lists the various events, or triggers, and the available methods of handling each trigger

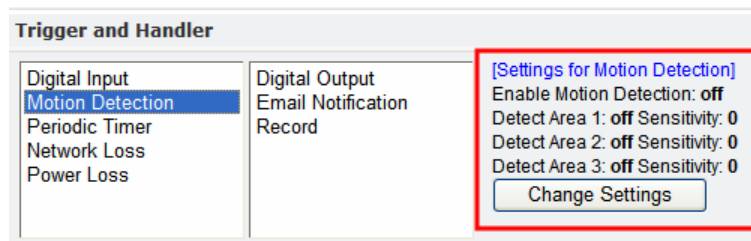
Trigger/Event	Handler/ Action
Digital Input	Digital Output
	PTZ Preset*
	Email Notification
	Record
Motion Detection	Digital Output
	PTZ Preset <sup>1</sup>
	Email Notification
	Record

---

<sup>1</sup> PTZ Preset is only available for those models that support PTZ functionality.

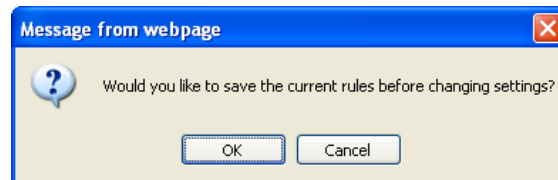


Periodic Timer	Digital Output
	PTZ Preset*
	Email Notification
Network Loss	Digital Output
Video Loss <sup>2</sup>	Digital Output
	Email Notification
Power Loss	Email Notification



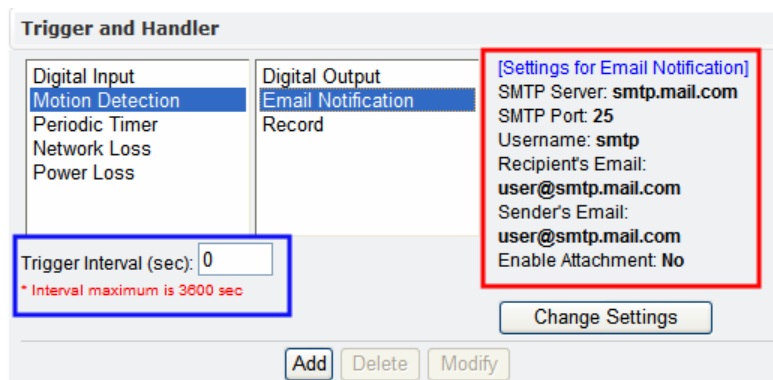
These additional trigger settings also correspond to the settings in the “Trigger Setup” configuration view (See “Trigger Setup” for more information).

By clicking “Change Settings”, the browser window will be redirected to the corresponding section in the configuration view (i.e. SMTP/FTP). The user will first be asked about saving, or activating, the rule.



**OK** saves the rule; **Cancel** doesn’t save the rule. In either instance, the browser will then be redirected to the corresponding configuration page.

In addition, the Handler actions also have additional settings displayed. Below is the Email Notification handling action for the Motion Detection trigger.



<sup>2</sup> Video Loss is a video server event; IP cameras will not list this event.



The area highlighted in red is settings which can also be set via the “SMTP/FTP” configuration view. However, the area highlighted in blue, “Trigger Interval”, is a setting specific to the Motion Detection/Record handler; other Email Notification handler actions may or may not have the “Trigger Interval” setting. Below is an example of an Email Notification handler not using this setting.

## Activating Events

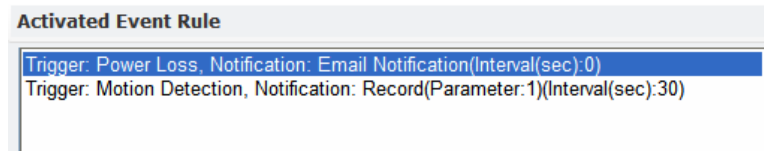
To activate an event, first select the event and corresponding actions. Next press **ADD** button to activate the event; the event will be added to the “Activated Event Rule” pane.

Lastly, click the **OK** button located at the bottom of the page to save the changes. The activated event handler will be disabled in the “Trigger and Handler” pane. The following shows the Power Loss/Email Notification has been disabled after activating this event.

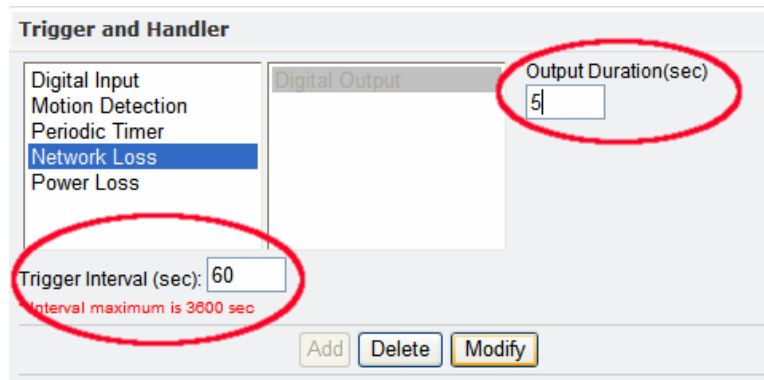
## Modifying Activated Event Rules

To modify an event that has already been activated, first highlight the event in the “Activated Event Rule” pane. Below the Network Loss event has been highlighted for modification.





In the “Trigger and Handler” pane, the current settings for the activated event are displayed. These can be changed as has been done below in the red highlighted areas.



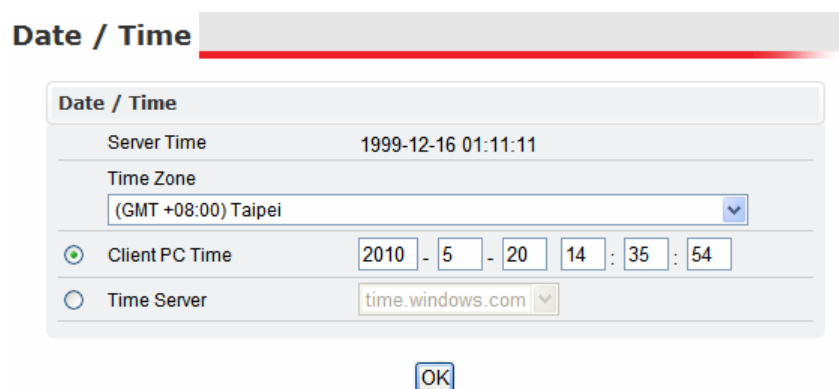
After making any desired changes, click **Modify** to see the changes in the “Activated Event Rule” pane. Lastly, click **OK** at the bottom of the page to apply the changes.

## Deleting Events

To remove an event, select the event in the “Activated Event Rule” list, then click the **Delete**. Next click **OK** at the bottom of the page to save the changes.

Clicking **Delete All** removes all the events in the “Activated Event Rule” list.

## 3.6 Date & Time



The “Server Time” displays a snapshot of the time as it was when the page was accessed. The time displayed here will not increment.

The “Time Zone” drop down box offers a selection of time zones to apply to the IP camera.



## Client PC Time

The “Client PC Time” is used to synchronize the IP camera with the time of the PC accessing the Settings page. “Client PC Time” will display the current time of the PC.

To synchronize the camera with the PC time, choose the “Client PC Time” option if not already selected and click **OK** at the bottom of the page.

## Time Server

A Time Server can be also be used to maintain time accuracy. It synchronizes every hour. To use a time servers, choose the “Time Server” option.

Next select one of the two time server options (pool.ntp.org, time.windows.com) or define one by selecting “Other”. “Other” will present another field, “User Assign”, where the desired time server can be defined.

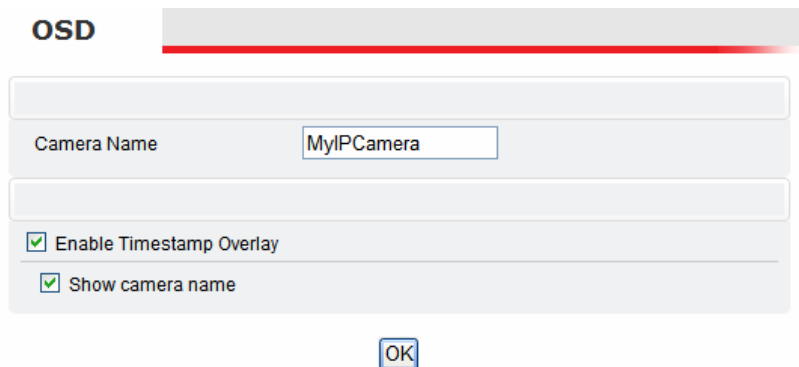


After choosing a time server, click **OK** to apply the changes and update the time.

## 3.7 OSD (On-Screen Display)

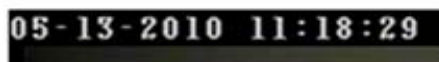


The OSD and Camera Info displays are independent.



The OSD settings relate to information (i.e. time) displayed along with the video from the camera. In addition, the OSD section also controls the name associated with the IP camera.

The OSD details are presented in the top left corner of the Live View.



By default the date and time are displayed.

The “Camera Name” is a user-defined name given to the camera. The camera name must be a-z, A-Z, 0-9, and “-”; character spaces aren’t permitted.



The timestamp overlay of the video can be enabled/disabled via the “Enable Timestamp Overlay” checkbox.

The camera name can also be enabled/disabled via the “Show camera name” check box. The camera name will appear below the time & date.





## 4 THE SETTINGS PAGE – EXPERT

---

The following continues the description of the different configuration options within the Settings page

### 4.1 PTZ Control (Pan, Tilt, Zoom)

**Note:** Only Video Servers, Box and Megapixel Cameras will have this configuration option as of this firmware version.

**PTZ Control**

PTZ Protocol	none
Device ID	0
Baud Rate	B9600
Data Bits	8
Parity	none
Stop Bits	1

OK

To configure the PTZ Control configuration, please refer to the manufacturer's PTZ specifications. The PTZ Control settings will depend on these specifications.

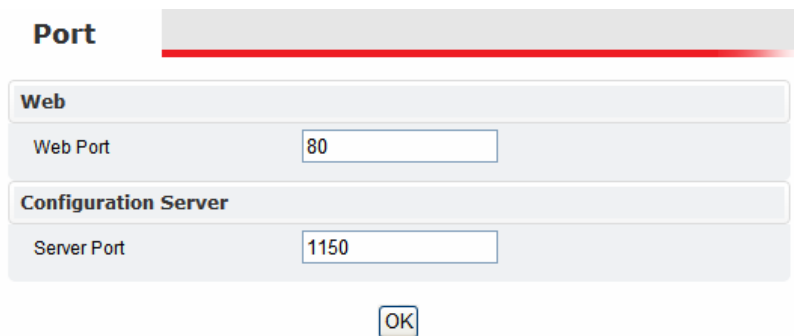
The following is a listing of the available PTZ Protocol settings.

none	▼
none	
Transparent	
PelcoP	
PelcoD	
Merit_Lilin	
Visca	
Dynacolor	

Based on the manufacturer's specifications, select the appropriate value for PTZ Protocol, Device ID, Baud Rate, Data Bits, Parity and Stop Bits Device ID.



## 4.2 Port



**Port**

**Web**

Web Port 80

**Configuration Server**

Server Port 1150

OK

The “Web Port” is used to access the IP camera’s web interface. The default value of Web Port is 80.

The “Configuration Port” is used for integrating applications with the IP camera. The default port is 1150.



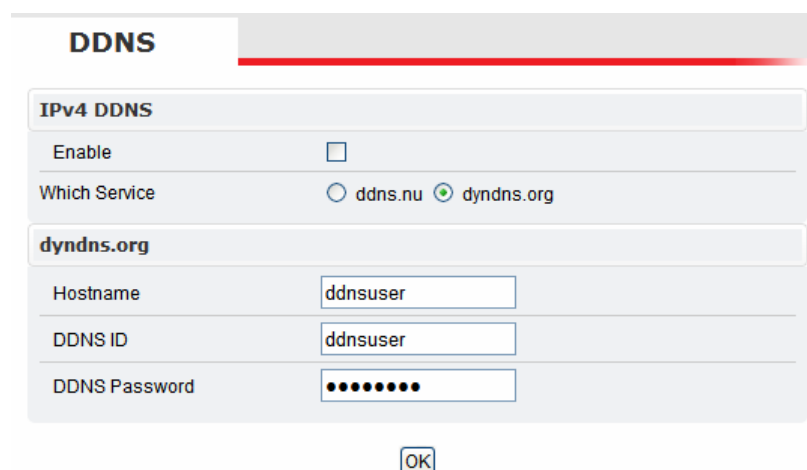
If the default port is changed (e.g. 8080) users must add the port number to the IP address (10.1.21.5:8080).

## 4.3 DDNS (Dynamic DNS)

DDNS is used to map a dynamically assigned IP address (a device using DHCP) with a hostname.



Certain network configuration will likely be required (i.e. mapping the IP address recognized by the DDNS service to the IP camera) to implement DDNS. Therefore, the network administrator will likely need to be consulted.



**DDNS**

**IPv4 DDNS**

Enable ☐

Which Service ☐ ddns.nu ☒ dyndns.org

**dyndns.org**

Hostname ddnsuser

DDNS ID ddnsuser

DDNS Password ••••••••

OK

If the IP camera uses DHCP, a DDNS service can provide a hostname for use with the IP camera.

Registration with one of the DDNS service providers (ddns.nu, dyndns.org) is required for use of this feature.



To enable DDNS, check the “**Enable**” box.

After registering with one of the DDNS services, enter the hostname, DDNS ID and DDNS Password.

The screenshot shows a web interface for configuring DDNS. At the top, there is a tab labeled "DDNS". Below it, a section titled "IPv4 DDNS" contains the following fields:

- Enable:** A checkbox that is checked with a green checkmark.
- Which Service:** Two radio buttons; "ddns.nu" is unselected, and "dyndns.org" is selected with a green dot.

Below the "IPv4 DDNS" section, there is a section titled "dyndns.org" with the following fields:

- Hostname:** A text box containing "ng2f.dyndns.org".
- DDNS ID:** A text box containing "curryford".
- DDNS Password:** A text box filled with ten black dots.
- Verify Password:** A text box filled with ten black dots, followed by the word "Matched" in red text.

At the bottom of the form, there is a blue "OK" button.

After configuring the DDNS and any networking modifications, the web interface can be accessed via the hostname (i.e. <http://ng2f.dyndns.org>).

## 4.4 SMTP/FTP

The IP camera can be configured to send notifications via email. In addition, the IP camera can also upload video and images using ftp.



SMTP/FTP

Remote SMTP Setup

SMTP Server	smtp.mail.com
SMTP Port	25
Authentication	<input checked="" type="checkbox"/>
Enable SSL	<input type="checkbox"/>
Username	smtp
Password	••••••••
Sender's Email	user@smtp.mail.com
Recipient's Email	user@smtp.mail.com
Enable Attachment	<input type="checkbox"/>
Connection Test	Test SMTP

Remote FTP Setup

FTP Server	192.168.1.1
FTP Port	21
Username	ftpuser
Password	••••••
Passive Mode	<input checked="" type="checkbox"/>

OK

## Remote SMTP Setup

The SMTP settings allow the IP camera to send email notifications to a recipient's email account. These settings are used by various event triggers (i.e. Motion Detection) defined in the in the "Event Rule" settings page.

The following parameters should be modified with the appropriate email settings. Please verify this information with the email account administrator.

Remote SMTP Setup

SMTP Server	smtp.mail.com
SMTP Port	25
Authentication	<input checked="" type="checkbox"/>
Auth User	smtp
Auth Password	••••••••
Sender's Email	user@smtp.mail.com
Receipient's Email	user@smtp.mail.com
Enable Attachement	<input type="checkbox"/>



After entering the appropriate email account settings, click **OK** at the bottom of the screen to apply the changes. Next the email configuration needs to be tested.

The “Connection Test” requires two steps.

1. In the “Connection Test” field, click **Test SMTP**.  
If an error is encountered, then review the email settings, make the necessary changes, and try the **Test SMTP** again until the “Ready to verify SMTP setting” is displayed.



2. After receiving the status “Ready to verify SMTP setting”, verify the email settings work with the SMTP server by clicking “Test SMTP” again.  
If an error is encountered, then review the email settings, make the necessary changes, and try the **Test SMTP** again until the “Verify SMTP success” message is displayed.



No test email will be sent during the above configuration. Upon receiving “Verify SMTP success”, email notification should be properly configured and ready for use.

Click **OK** to apply changes.

## Remote FTP Setup

Enter the address of the FTP server, port number, user name, and password. Passive Mode may be required if the IP camera is accessing an FTP server outside of a firewall.

Remote FTP Setup	
FTP Server	<input type="text" value="192.168.1.1"/>
FTP Port	<input type="text" value="21"/>
Username	<input type="text" value="ftpuser"/>
Password	<input type="password" value="••••••"/>
Passive Mode	<input checked="" type="checkbox"/>

Click **OK** to apply changes.

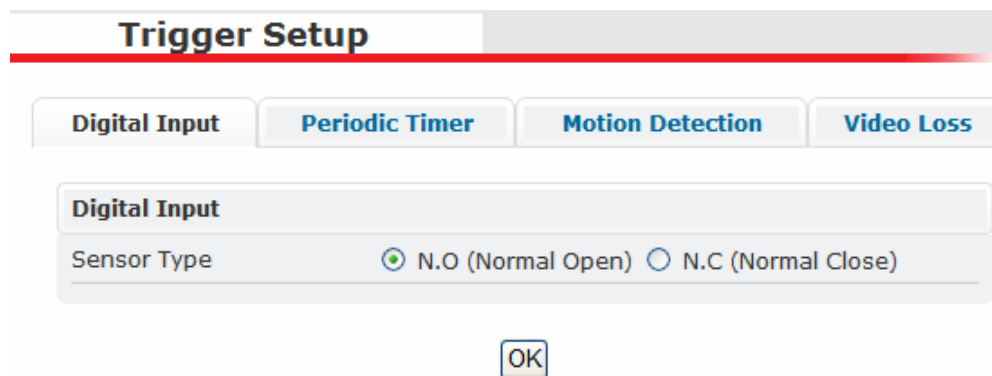
## 4.5 Trigger Setup



For proper operation, ensure the mini DIN cable has been properly connected to digital I/O and RS-485 devices.



Three different events can be triggered.



The screenshot shows the 'Trigger Setup' dialog box. It has four tabs: 'Digital Input', 'Periodic Timer', 'Motion Detection', and 'Video Loss'. The 'Digital Input' tab is selected. Below the tabs, there is a section titled 'Digital Input' with a 'Sensor Type' label. There are two radio buttons: 'N.O (Normal Open)' which is selected, and 'N.C (Normal Close)'. At the bottom of the dialog is an 'OK' button.

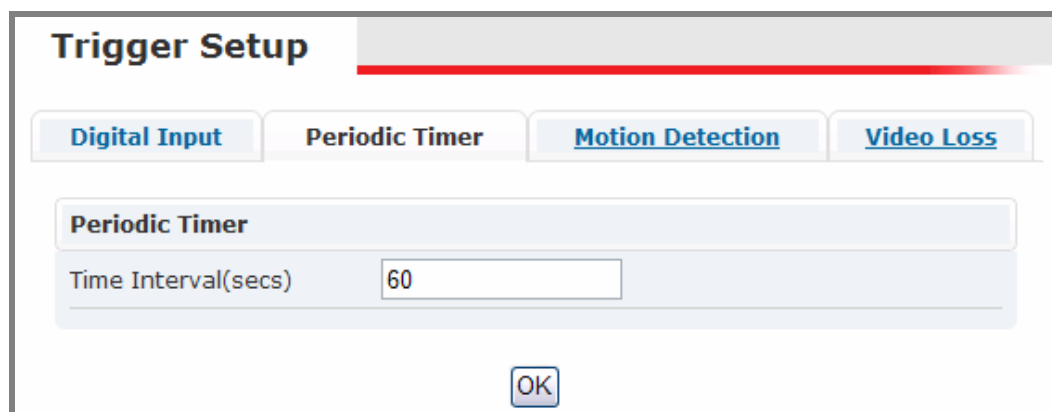
## Digital Input

There are two selectable options: **Normal Open (N.O.)** and **Normal Close (N.C.)**

- N.O. represents the circuit should remain open; consequently, closing the circuit represents the trigger.
- N.C. represents the circuit should remain closed; consequently, opening the circuit represents the trigger.

Choose the proper option depending on the input type; press **OK** to save the setting.

## Periodic Timer



The screenshot shows the 'Trigger Setup' dialog box with the 'Periodic Timer' tab selected. Below the tabs, there is a section titled 'Periodic Timer' with a 'Time Interval(secs)' label and a text input field containing the value '60'. At the bottom of the dialog is an 'OK' button.

The Periodic Timer will automatically trigger an event based on the time interval. Set the appropriate value in seconds, and click **OK** to apply the changes.

## Motion Detection

The “Motion Detection” trigger will trigger an event upon detecting motion in a specified area of viewing.

### Detection Setting

Below is the “Detection Setting” section of the “Motion Detection” settings page.



## Trigger Setup

Digital Input

Periodic Timer

Motion Detection

### Detection Setting



### ☒ Enable Motion Detection

	Enable	Sensitivity (-10 ~ 10)	Draw	Clean
Detect Area 1	<input checked="" type="checkbox"/>	- 0 +	<input checked="" type="radio"/>	<input type="button" value="Clean"/>
Detect Area 2	<input checked="" type="checkbox"/>	- 0 +	<input type="radio"/>	<input type="button" value="Clean"/>
Detect Area 3	<input type="checkbox"/>	- 0 +	<input type="radio"/>	<input type="button" value="Clean"/>

The first step to enable motion detection is to check the “Enable Motion Detection” option.

### ☒ Enable Motion Detection

Below the “Enable Motion Detection” check box are detection area settings. While “Enable Motion Detection” may be enabled, no events will be triggered if no detection areas are defined and enabled.

	Enable	Sensitivity (-10 ~ 10)	Draw	Clean
Detect Area 1	<input checked="" type="checkbox"/>	- 0 +	<input checked="" type="radio"/>	<input type="button" value="Clean"/>
Detect Area 2	<input checked="" type="checkbox"/>	- 0 +	<input type="radio"/>	<input type="button" value="Clean"/>
Detect Area 3	<input type="checkbox"/>	- 0 +	<input type="radio"/>	<input type="button" value="Clean"/>

The example above has two areas enabled (area 1 and 2). In the area displaying the camera view, motion detection areas 1 and 2 are defined by shaded areas.

If an area is disabled, the defined area will remain, but will be grayed out.

The “Draw” and “Clean” functions are also available in the Detect Area settings.

	Enable	Sensitivity (-10 ~ 10)	Draw	Clean
Detect Area 1	<input checked="" type="checkbox"/>	- 0 +	<input checked="" type="radio"/>	<input type="button" value="Clean"/>



The “Draw” option defines which area (1, 2 or 3) can be defined in the viewing portion at the top of the page. Using the mouse, the user clicks the left mouse button, holds and drags to define an area.

The **Clean** button removes the corresponding detection area.

“Sensitivity” defines the sensitivity of the motion detection sensor for triggering an event. Sensitivity values range from -10 (the least) to +10 (the most).

## Schedule Setting

Along with the area detection settings, the “Schedule Setting” portion of the settings page allows scheduling when the IP camera monitors for motion detection.

Schedule Setting	
Enable Type	Always <span>▼</span>
Schedule Days	<input type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday
Start Time	0 <span>▼</span> : 0 <span>▼</span>
Stop Time	23 <span>▼</span> : 59 <span>▼</span>

OK

“Enable Type” provides two options: “Always” and “Schedule”. Choose “Always” if the IP camera should continuously perform motion detection.

“Schedule” allows configuring the IP camera to selectively determine when motion detection should occur. Selecting “Schedule” will allow choosing a start/stop time along with specific days to perform motion detection monitoring.

Click **OK** at the bottom of the page to apply any changes.

## Video Loss

**Note:** Video Loss will only be found in video servers.

Trigger Setup	
<span>Digital Input</span>	<span>Periodic Timer</span>
<span>Motion Detection</span>	<span>Video Loss</span>

Video Loss	
Trigger when loss is more than	10 secs

OK

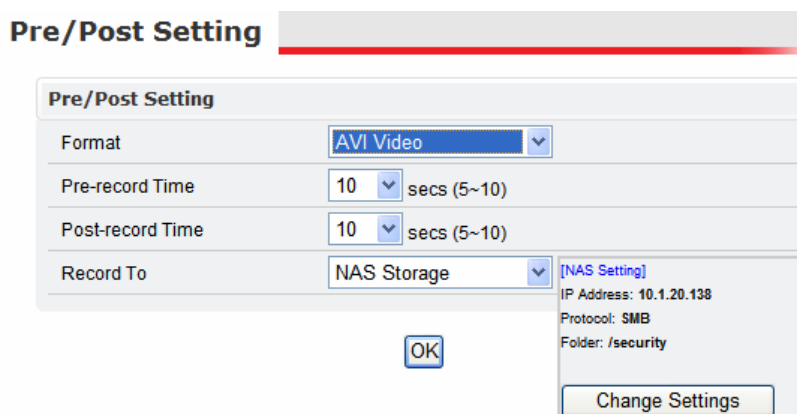


The Video Loss trigger will generate an event if video from the analog camera is lost for a certain period of time. The default value is 10 seconds.

After setting a value, click **OK** to apply the setting.

## 4.6 Pre/Post Setting

These settings configure the stream format type, duration of pre/post buffer video, and storage method when a trigger handler is set to “Record”.



The image shows a 'Pre/Post Setting' dialog box. It has a title bar 'Pre/Post Setting' and a red gradient bar below it. The dialog contains four rows of settings: 'Format' with a dropdown menu showing 'AVI Video'; 'Pre-record Time' with a numeric input '10' and a dropdown for 'secs (5~10)'; 'Post-record Time' with a numeric input '10' and a dropdown for 'secs (5~10)'; and 'Record To' with a dropdown menu showing 'NAS Storage'. To the right of the 'Record To' dropdown is a link '[NAS Setting]'. Below the 'Record To' dropdown is an 'OK' button. To the right of the 'OK' button is a 'Change Settings' button. A small panel on the right side of the dialog shows the following information: 'IP Address: 10.1.20.138', 'Protocol: SMB', and 'Folder: /security'.

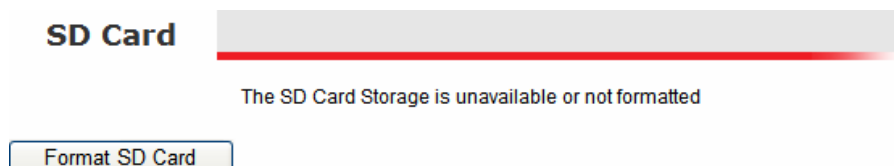
- Format: options include “AVI” (for video file) and “JPEG” (for picture file).
- Pre-record Time: duration of video prior to the event trigger to be recorded
- Post-record Time: duration of video after the event trigger to be recorded
- Record To: options include “FTP Upload” and “NAS Storage”.  
Clicking Change Settings will redirect the browser to the corresponding settings page (i.e. “NAS Setting” settings page).

## 4.7 SD Card

**Note:** Dome, Outdoor and Speed Dome models do not have SD Card functionality as of this firmware version.

A high capacity SD memory card can be used for storing video and images.

After inserting the SD card, the camera will automatically detect the card. If the card has never been used, then the card may be listed as unavailable or unformatted.



The image shows an 'SD Card' dialog box. It has a title bar 'SD Card' and a red gradient bar below it. Below the title bar, the text 'The SD Card Storage is unavailable or not formatted' is displayed. At the bottom of the dialog is a button labeled 'Format SD Card'.

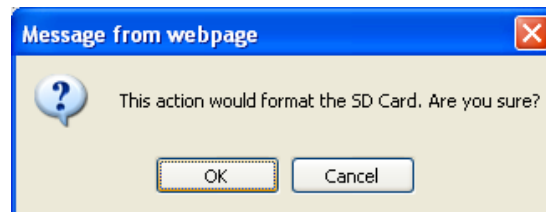
If the camera has been previously used for other applications, then the SD card information may resemble the following.



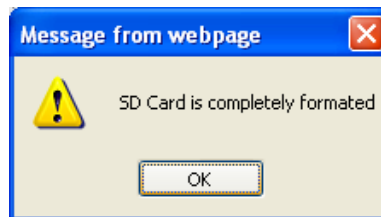


Next format the SD card. This step is required to insure proper formatting and creating the necessary directory structure.

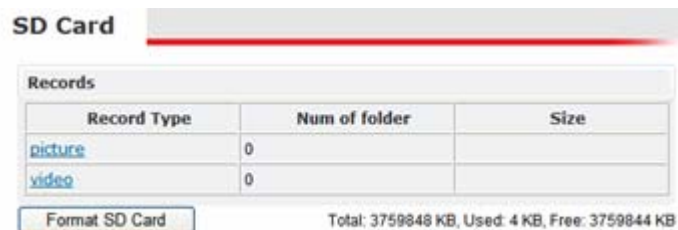
Click **Format SD Card**. A confirmation dialogue will be displayed.



Click OK to format the SD card. After the card has been formatted, a notification will be displayed.



The SD card is now ready for use.



## 4.8 NAS Setting (Network Attached Storage)

The NAS settings define the network storage parameters. To implement NAS, check "Enable".



NAS Setting	
Enable	<input checked="" type="checkbox"/>
Protocol	SMB
IP Address	NFS
Folder	SMB /share
Username	username
Password	••••••••
Connect Status	NAS is not connecting

OK

- Protocol: defining the protocol for file sharing; the two options are SMB (Server Message Block) and NFS (Network File System)
- IP Address: the IP address of the where the network storage resides
- Folder: the directory which the IP camera will access for file storage
- Username: username for establishing NAS connectivity
- Password: corresponding password
- Connection Status: displays the status of the NAS connection; “NAS is not connecting” or “NAS is connecting”

After configuring and clicking **OK**, check the “Connection Status”.

The following illustrates a successful NAS connection.

NAS Setting	
Enable	<input checked="" type="checkbox"/>
Protocol	SMB
IP Address	10.1.20.138
Folder	/security
Username	ipcamera
Password	••••••••
Connect Status	NAS is connecting

OK

## 4.9 Account

The Account settings page allows the administrator to manage user and guest accounts.



**Account**

User ID	V/S	D/O	
root	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Password</b>

User ID	Password	Confirm	V/S	D/O
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Password length must be 4~12 characters

**Add**

---

**Guest Permission**

Enable ☒

**OK**

## The Administrator Account



It is recommended changing the administrator (root) password after the initial network configuration.



The ID of administrator can not be changed or deleted; only the password is changeable.



Forgetting the root password will require resetting the IP camera's default factory settings to regain root access. See "Reset Default Factory Settings" for more information.

Administrator has the authority to view and control system settings.

To change the administrator (root) password, click **Password** for the root User ID. The administrator account, root, cannot be changed or deleted. Only the password is changeable.

User ID	V/S	D/O	
root	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Password</b>

A new page will be displayed for changing the root password. Enter the appropriate information and click **Modify**.



**Modify**

---

Modify Password	
ID	root
Old Password	<input type="password"/>
New Password	<input type="password"/>
Confirm	<input type="password"/>

\* Password length must be 4~12 characters

Modify

The administrator account, root, cannot be changed or deleted. Only the password is changeable.

## User Accounts

The administrator can also create new user accounts (up to five additional users). User accounts can be created by entering the “User ID” and password, then clicking **Add**.

Users can be assigned different combinations of authorities including video settings (V/S) and digital out (D/O).

There are limits to the length of user’s name and password. If the length exceeds the limit, a dialog box will appear for notification.

**Account**

---

User ID	V/S	D/O	
root	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Password

User ID	Password	Confirm	V/S	D/O
<input type="text"/>	<input type="password"/>	<input type="password"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Password length must be 4~12 characters

Add

**Guest Permission**

Enable ☒

OK

## Guest Permission

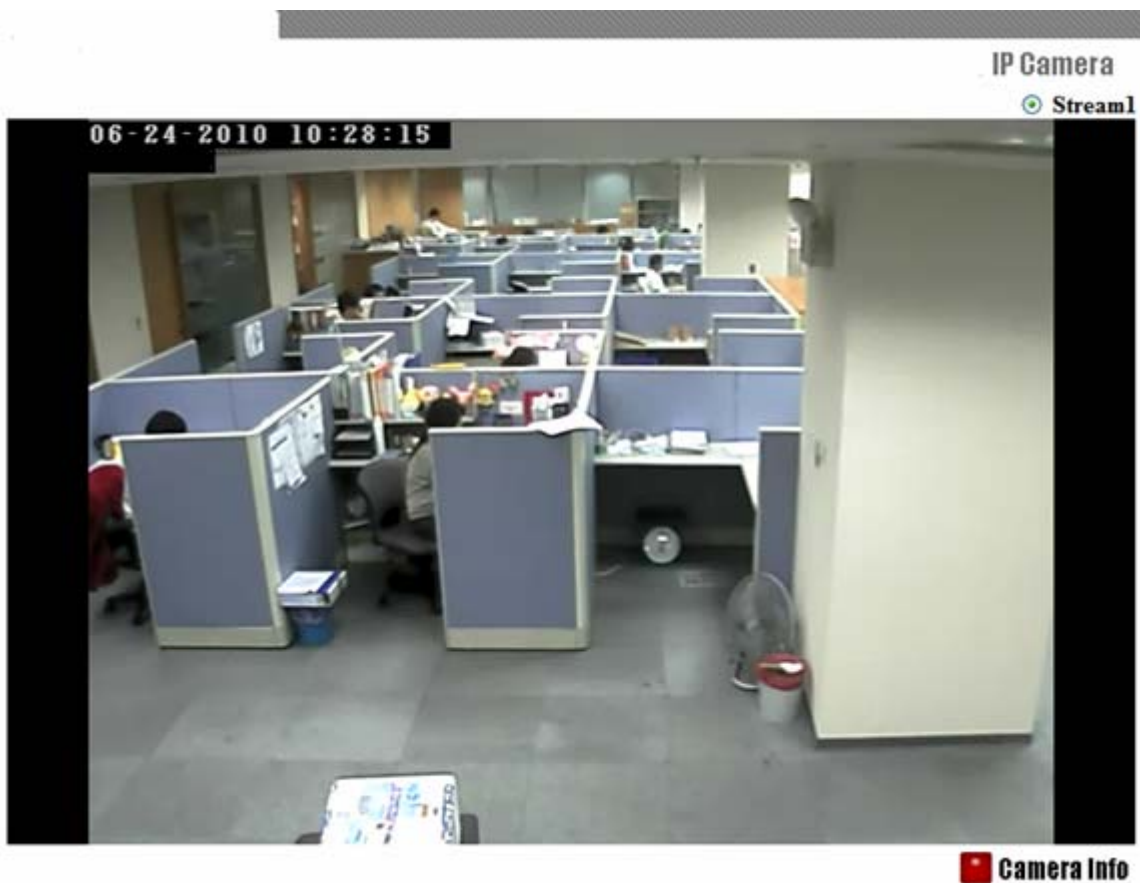
“Guest Permission” corresponds to a special account, guest.

Enabling this account allows browser access via the guest account. This account doesn’t require a password.





The “guest” account is limited to viewing Stream1, Stream2 (if enabled) and “Camera Info”.





## 4.10 Security

The Security settings allow restricting network access to the web interface and video/audio output. In addition, the Power LED on the back of the IP camera can be disabled for security purposes.

**Security**

**Network Security** **Power LED**

**Security Mode**

☒ Pre-defined Level ☐ Customized by IP Filter

**Level Setting**

<input type="radio"/> HIGH	Only connections from the local area
<input type="radio"/> MEDIUM	Video and Audio connections from any place; Setting connections from the local area
<input checked="" type="radio"/> LOW	All connections from any place

OK

### Network Security

The Network Security settings allow restricting access to the IP camera by network addresses. There are two modes which are available: Pre-defined Level, Customized by IP Filter.

**Security Mode**

☒ Pre-defined Level ☐ Customized by IP Filter

#### Pre-defined Level

The default setting is “Pre-defined Level” and “LOW” which allows connections from anywhere.

**Level Setting**

<input type="radio"/> HIGH	Only connections from the local area
<input type="radio"/> MEDIUM	Video and Audio connections from any place; Setting connections from the local area
<input checked="" type="radio"/> LOW	All connections from any place

The “MEDIUM” and “HIGH” settings present restrictions based on if the connections are local to the IP camera or outside of the local area network.

#### Customized by IP Filter

The Customized by IP Filter allows greater flexibility in defining access to the IP camera.



**IP Filter**

Default Rule ☐ Deny All ☒ Allow All

IP:  Netmask:

Service:  Policy:

The “Default Rule” defines if the emphasis is on exclusion or inclusion. “Deny All” will deny access to all except for those who are granted access. Conversely, “Allow All” will allow access to all except for those who are excluded.

In the pane below “Default Rule”, rules will be defined which allow/exclude access to subnets and/or specific IP addresses.

**IP Filter**

Default Rule ☒ Deny All ☐ Allow All

10.1.20.138/255.255.254.0 on service(Web) is Allow  
10.1.20.138/255.255.254.0 on service(Stream1) is Allow

The rules are evaluated in order starting from the top and moving down. The **Up** and **Down** buttons can move rules up and down. The order of the rules is important, and will be illustrated in an example in the next section.

Near the bottom are the settings for defining rules.

IP:  Netmask:

Service:  Policy:

- IP: an IP address; this can represent a subnet
- Netmask: the netmask of the IP address
- Service: Stream 1, Stream 2, Web (port), Configuration (port)
- Policy: Allow or Deny

**Add** adds the rule to the rule pane above.

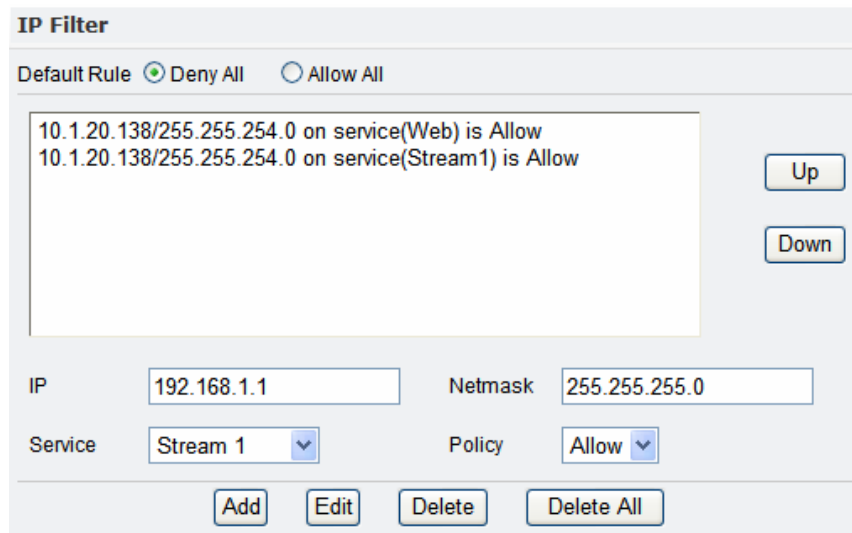
**Edit** will allow edits to an existing rule. First highlight the rule in the rule pane, edit the information in the rule settings, and click **Edit** to apply the changes.



**Delete** will delete a specific rule, while **Delete All** will delete all the existing rules. Click **OK** to apply any changes.

## Customized by IP Filter Example

Below is a screenshot which will be used for explaining the Customized IP Filter functionality.



Firstly, the “Default Rule” is “Deny All”. So, all access by default is denied.

However, two rules have been defined in the rule pane.

```
10.1.20.138/255.255.254.0 on service(Web) is Allow
10.1.20.138/255.255.254.0 on service(Stream1) is Allow
```

Here we are allowing access to the IP 10.1.20.138/255.255.240.0 for the Web and Stream1 service.

While it appears we are only allowing access to 10.1.20.138, we are actually allowing access for those on the same subnet. Despite access to Web and Stream1, 10.1.20.138 cannot access Stream2. The “Deny All” requires that this be granted for access.

Next we add the following rule.

```
10.1.20.138/255.255.254.0 on service(Web) is Allow
10.1.20.138/255.255.254.0 on service(Stream1) is Allow
10.1.20.140/255.255.254.0 on service(Web) is Deny
```

This rule is denying Web access to 10.1.20.140. Although, “Deny All” is currently in effect, 10.1.20.140 is on the same subnet. It has access via 10.1.20.138 having access.

Despite adding the rule to deny 10.1.20.140, 10.1.20.140 still can access the web interface because of the order of evaluation. The rule denying 10.1.20.140 comes after the rule allowing access to 10.1.20.138.

Therefore, the 10.1.20.140 must be moved to precede the rule allowing access to 10.1.20.138. We use the Up button to move the rule.

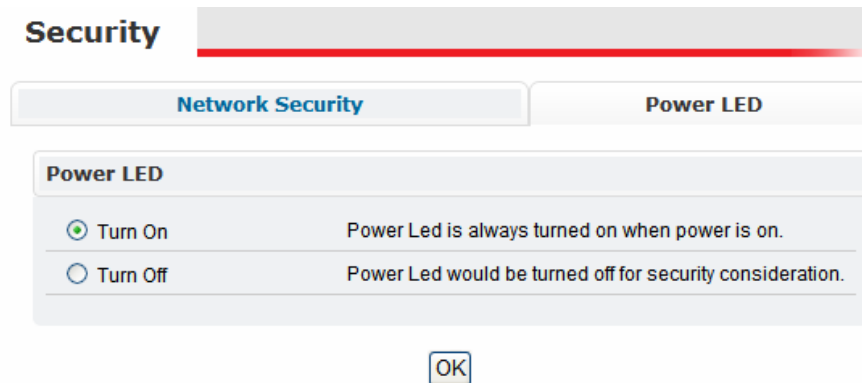


```
10.1.20.140/255.255.254.0 on service(Web) is Deny
10.1.20.138/255.255.254.0 on service(Web) is Allow
10.1.20.138/255.255.254.0 on service(Stream1) is Allow
```

After applying the changes, 10.1.20.140 cannot access the web interface. However, others on the same subnet as 10.1.20.138 can access the web interface.

## Power LED

The Power LED on the back of the IP camera can be enabled and disabled.



If the “Turn Off” option is chosen, the light will remain off unless the camera is rebooting. During the reboot the camera light will blink; the light will remain unlit after finishing the reboot.

## 4.11 Maintenance

The Maintenance section allows for configuring language settings, firmware updates, IP camera configuration backup/restore operations, and restoring factory default settings.



Maintenance

Select Language

Language
English
Update

Firmware Update

Keep Network Setting
☒

Keep User Account
☒

Firmware File
Browse...
Upload
Save

System Configuration (Backup/Restore)

Backup Configuration
Export

Restore from file
Browse...
Import

Factory Default

Keep Network Setting
☒

Keep User Account
☒

Factory Default
Save

## Language

The following language options are available: English, Traditional Chinese, Simplified Chinese, Japanese, French and Polish. The default setting is English.

## Firmware Update



The power supply must be steady as upgrading the firmware. The power failure during the upgrade process results in serious damage to the machine.



Configuration settings will be lost after applying a new firmware version. Backup the IP camera's configuration prior to the firmware update (see "System Configuration (Backup/Restore)" in the next section).

Firmware can be downloaded from Convision's website, [www.convision.com](http://www.convision.com).

Prior to updating firmware, check "Keep Network Setting" and "Keep User Account" if the network/account settings should be preserved during the firmware update. Click **Save** to make the change permanent.

Firmware Update

Keep Network Setting
☒

Keep User Account
☒

Firmware File
Browse...
Upload
Save

After downloading the appropriate firmware version, click **Browse** to select the firmware file.





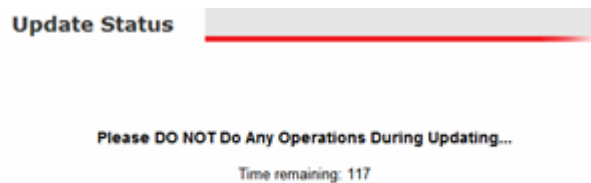
Caution: No confirmation will be provided after clicking Upload; the firmware update will automatically proceed. Please verify everything before proceeding.

After selecting the firmware file, click **Upload**.

A sequence of messages will follow. No IP camera operations should be performed during this time.



Next...



Lastly...

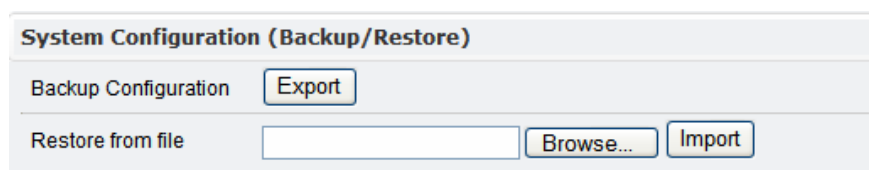


After the reboot is complete, the camera will have the factory default network settings. These will need to be modified.

After logging into the web interface, check the “Firmware Version” field in the “Status” Settings page to confirm the firmware has been successfully updated.

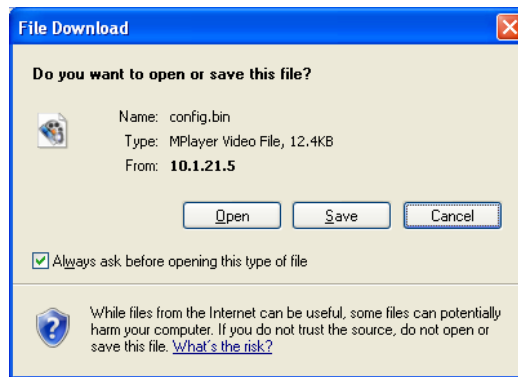
## System Configuration (Backup / Restore)

The current configuration settings can be backed up to a file on the PC which can be restored if necessary.

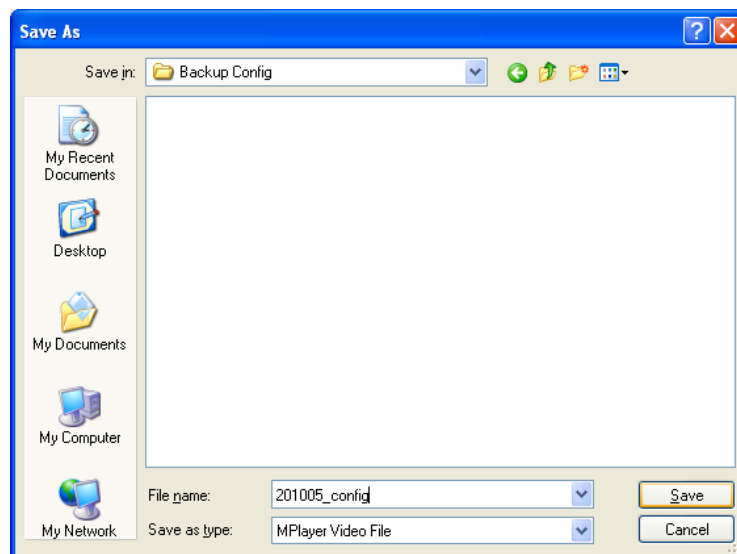


Clicking **Export** will open an additional IE window and the following prompt.





Click **Save** which will bring up an explorer window where the user can choose the location and name for the backup configuration file.



Click Save to save the file, additional prompts should be self-explanatory.

After saving the file, a blank IE browser window will remain open. This can be closed.

To restore a previous configuration from a backup file, click the “Restore from file” **Browse** button. Select the backed up configuration file.



Caution: No confirmation will be provided after clicking **Import**; the firmware update will automatically proceed. Please verify everything before proceeding.

To continue with restoring the system configuration, click **Import**. The file will be uploaded and a reboot will ensue.

## Factory Default

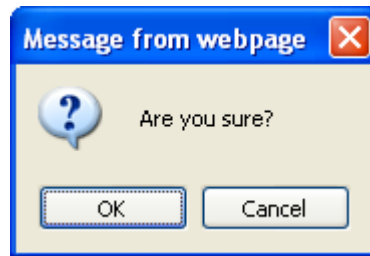
This function will restore the factory default settings.

Prior to restoring the factory default settings, check “Keep Network Setting” and “Keep User Account” if the network/account settings should be preserved during this process. Click **Save** to make the change permanent.



Factory Default	
Keep Network Setting	<input checked="" type="checkbox"/>
Keep User Account	<input checked="" type="checkbox"/>
<div>Factory Default Save</div>	

Click **Factory Default** to restore the factory default settings. A confirmation dialogue window will be displayed. Click **OK** to proceed or **Cancel** to abort.



The system will reboot following confirmation; wait for the countdown timer.

**Reboot**

Rebooting, 67sec remained

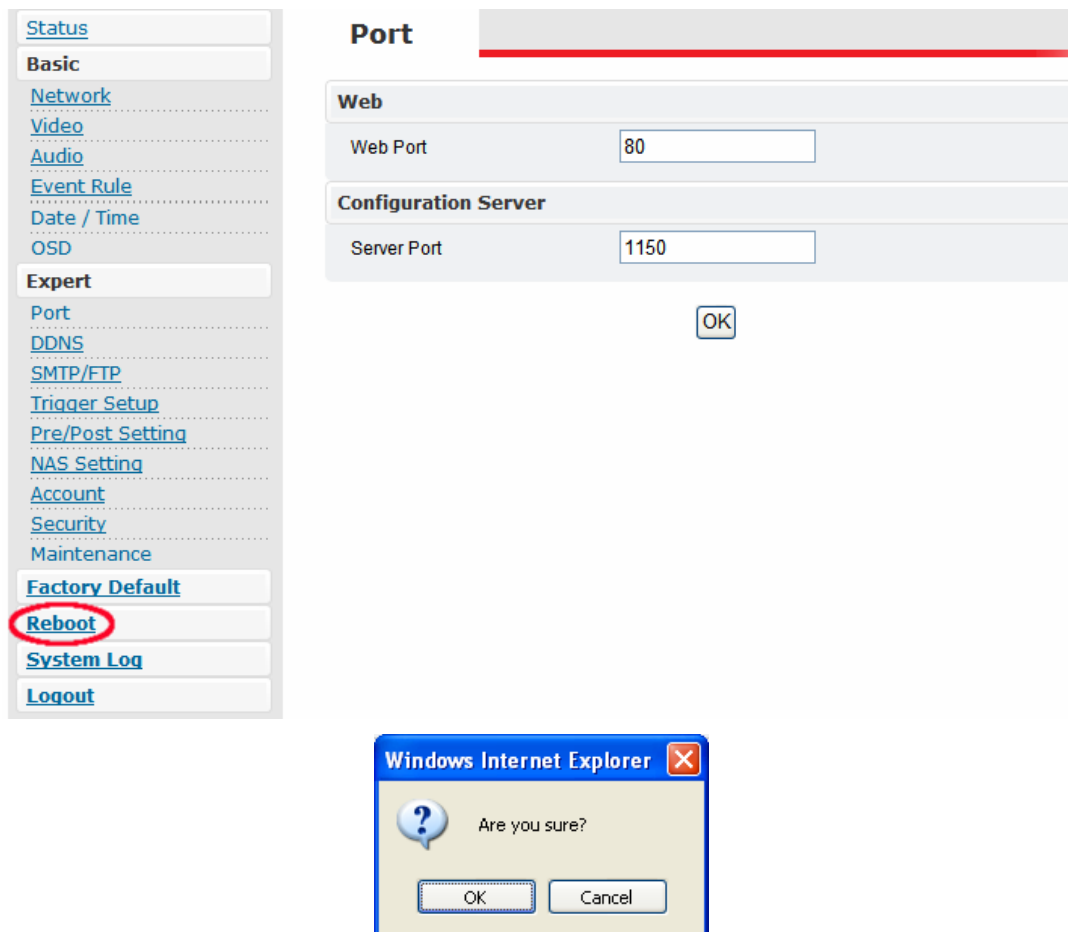
After rebooting the system will refresh the screen.



## 5 REBOOT

---

Pressing **Reboot** will display a confirmation dialog box.



Press **OK** to continue with the reboot; the reboot countdown timer will start running. After finishing, a prompt for refreshing the page will appear. Confirming will log the user back into the Live View page.



## 6 SYSTEM LOG

The System Log is a log containing information which may be needed for troubleshooting purposes.

**Status**

**Basic**

[Network](#)

[Video](#)

[Audio](#)

[Event Rule](#)

[Date / Time](#)

[OSD](#)

**Expert**

[Port](#)

[DDNS](#)

[SMTP/FTP](#)

[Trigger Setup](#)

[Pre/Post Setting](#)

[NAS Setting](#)

[Account](#)

[Security](#)

[Maintenance](#)

[Factory Default](#)

[Reboot](#)

[System Log](#)

[Logout](#)

**Port**

**Web**

Web Port

**Configuration Server**

Server Port

**System Log**

```
May 14 13:42:02 ipsLumchro[9549]: image setting : brightness 110 contrast 70 saturation 90 hue -1 gain -1.
May 14 13:42:02 ipsLumchro[9562]: Detected video input : INPUT_TYPE_ADV7180
May 14 13:42:02 ipsLumchro[9572]: Detected video input : INPUT_TYPE_ADV7180
May 14 13:42:02 ipsLumchro[9572]: GPIO setting : AEC = 1, AGC = 1, MIRROR = 0
May 14 13:42:02 ipsLumchro[9572]: image setting : brightness 110 contrast 70 saturation 90 hue -1 gain -1.
May 14 13:42:02 ipsLumchro[9578]: Detected video input : INPUT_TYPE_ADV7180
May 14 13:42:05 ips_stream[9099]: Restart stream#1 service v(1.1.9)
May 14 13:42:05 ips_avcodec[9530]: succeed to unregister to the wdt.
May 14 13:42:06 ips_stream[9126]: Restart stream#2 service v(1.1.9)
May 14 13:42:06 ips_stream[9126]: Start stream#2 service v(1.1.9)
May 14 13:42:09 ips_avcodec[9674]: ips_avcodec v1.4.1 is now running (pid 9674)
May 14 13:42:09 ips_avcodec[9674]: succeed to register to the wdt.
May 14 13:42:09 ips_avcodec[9681]: ips_avcodec v1.4.1 is now running (pid 9681)
May 14 13:42:10 ipsLumchro[9691]: Detected video input : INPUT_TYPE_ADV7180
May 14 13:42:10 insl umchro[9691]: GPIO setting : AEC = 1 AGC = 1 MIRROR = 0
```

The log entries have a timestamp which start from the oldest and go down the page to the most recent.

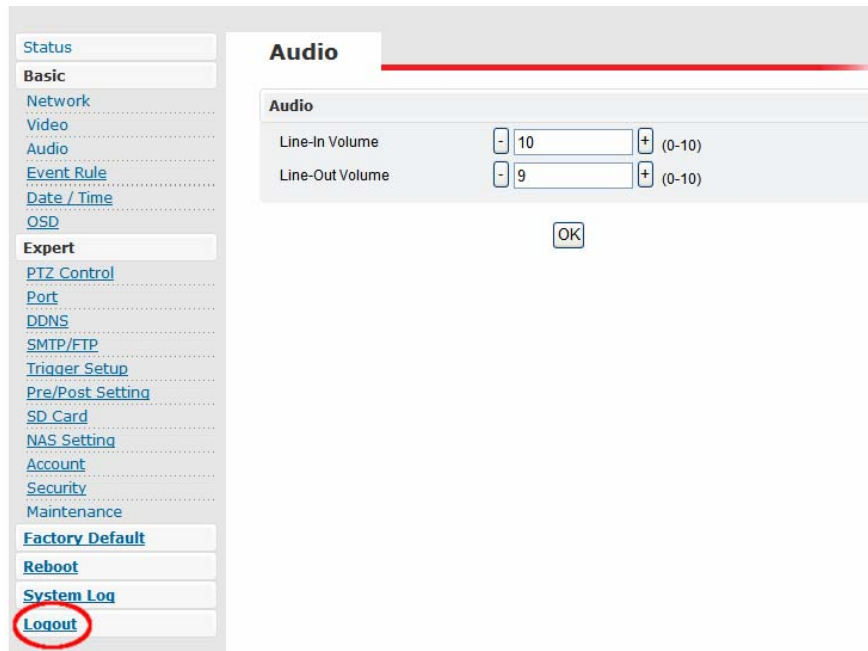
Most of the entries are only informational and will likely only be used in the event of investigating a problem with Convision Technical Support.



## 7 LOGOUT

---

Logout will log the user out of the IP camera web interface. This will require the user to input user/password credentials when logging back into the web interface.



Pressing **Logout** will exit the Settings page.

**Logout**

Logging out will close the browser.

Logout

Clicking **Logout** will display a confirmation dialog box. Select **Yes** to close the IE browser window.



## 8 WIRELESS CONNECTIVITY

With an Convision supported wireless dongle, the IP camera can be used on a wireless network.

There are two methods for enabling and configuring wireless connectivity: the web interface, the Configuration USB port.

The methods described below will assume configuration of a new IP camera using the factory settings.

### 8.1 Web Interface Configuration

First connect the LAN cable to the camera.

Insert the wireless dongle into the WiFi port.

Plug the power adapter and wait for the camera to boot.

Log into the web interface (i.e. <http://192.168.1.2>). Navigate to the “Status” page in the Settings page.

The screenshot shows the web interface of the IP camera. On the left is a sidebar menu with categories 'Basic' and 'Expert'. Under 'Basic', 'Wireless' is highlighted. The main content area is titled 'Status' and contains three sections:

- Network Status (Wired)**: A table showing network parameters for the wired connection.
- Network Status (Wireless) - Inactive**: A table showing the MAC address for the wireless dongle.
- Model Info**: A table showing the camera's model, serial number, and firmware version.

Network Status (Wired)	
MAC Address	00:19:6C:51:08:51
IP Address	10.1.21.35
Subnet Mask	255.255.254.0
Gateway	10.1.20.250
Default DNS	10.1.20.96

Network Status (Wireless) - Inactive	
MAC Address	00:22:2D:09:2F:85

Model Info	
Model	
Serial Number	L324000465
Firmware Version	1.7.6 Build 20100129

In addition to the LAN network settings, the “Status” page will also display details related to the wireless dongle.

Network Status (Wireless) - Inactive	
MAC Address	00:22:2D:09:2F:85



One important consideration is that the LAN network interface and the wireless network interface use different MAC addresses. This is an important distinction when searching for the IP address of the camera when using DHCP.

There is also a new entry, “Wireless”, on the Settings menu items located on the left side of the page.



Select “Wireless” to display the wireless configuration settings.

**Wireless**

---

**Wireless**

Enable ☐

MAC Address 00:22:2D:09:2F:85

Mode Station

**Station Setting**

SSID

Authentication Type ☒ Open System ☐ Shared Key ☐ WPA

Encryption Type

BSS Type

Wep Encryption Length

WEP Key ☒ Phrase ☐ Hex Digits

Before enabling the wireless network interface, check if the desired wireless network is available.

Click Search in the “Station Setting” section. After a moment, a list of available wireless networks should be listed.

**Station Setting**

SSID

CHEM AP  
dodohome-taipei  
NKSP  
**evDemoRoom**  
lizardkitchen

Highlight the wireless network to connect to.

Check the “Enable” box to implement wireless connectivity.



Enter all the relevant information for the specified SSID.

**Wireless**

---

**Wireless**

Enable	<input checked="" type="checkbox"/>
MAC Address	00:22:2D:09:2F:85
Mode	Station

**Station Setting**

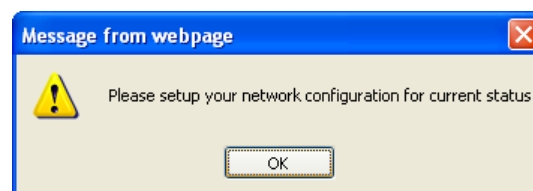
SSID	<input type="text" value="evDemoRoom"/> <input type="button" value="Search"/> CHEM AP dodohome-taipei NKSP <b>evDemoRoom</b> lizardkitchen
Authentication Type	<input type="radio"/> Open System <input checked="" type="radio"/> Shared Key <input type="radio"/> WPA
Encryption Type	WEP
BSS Type	Infrastructure
Wep Encryption Length	128bit
WEP Key	<input checked="" type="radio"/> Phrase <input type="radio"/> Hex Digits .....
Verify Key	<input type="text" value="....."/> <b>Matched</b>

Click **OK** to apply the settings. A confirmation will follow; click **OK**.



Another confirmation will follow which is noting that the network configuration needs to be updated. Following this dialogue, the network settings screen will be displayed.

Click **OK**.



Now the Network configuration settings will be presented.



## Network

**Network**

☐ Dynamic IP

☒ Static IP

IP Address

192.168.1.2

Subnet Mask

255.255.255.0

Gateway

192.168.1.1

Default DNS

168.95.1.1

☐ PPPoE

User ID

pppoe\_user

User Password

Verify Password

MTU

1412

DNS Server

☐ Manual ☒ Auto

DNS

168.95.1.1

☐ Send mail when connecting success.

Enable UPnP

☒

OK

Change the configuration settings to apply to the wireless network. For this example, DHCP will be used.

**Network**

☒ Dynamic IP

☐ Static IP


IP Address

192.168.1.2

Click **OK** to apply the changes.

Two confirmations will follow; click **OK** for both.


**Message from webpage**

 Device will be reboot after updating, are you sure?

OK

Cancel

**Message from webpage**

 Configuration is updated. System will be reboot.

OK

Next the reboot timer screen will be displayed.


## Reboot

Rebooting, 98sec remained

Now the LAN cable can be unplugged.



Since this example assumes DHCP is being used, use IP-Setup to find the IP address after the reboot.

 Use the wireless dongle's MAC address, not the MAC address for the LAN interface.


Using the MAC address of the wireless dongle, the camera's IP address is identified.

static	192.168.100.80	00-19-6C-81-50-AA	EV8150A	Chamber-8...	1.8.6	80	185
dhcp	192.168.0.157	00-22-2D-09-2F-85	EV8150A	L324000465	1.7.6	80	185
static	192.168.0.91	00-19-6C-01-14-1A	EV6552A	DQA-1	1.8.6	8081	185

This IP address can be used to access the IP camera's web interface.

## 8.2 USB Configuration Port

Unlike the web interface method of wireless configuration, the Quick Config utility doesn't display the wireless network interface's MAC address. Refer to the label on the dongle or the packaging for the MAC address.

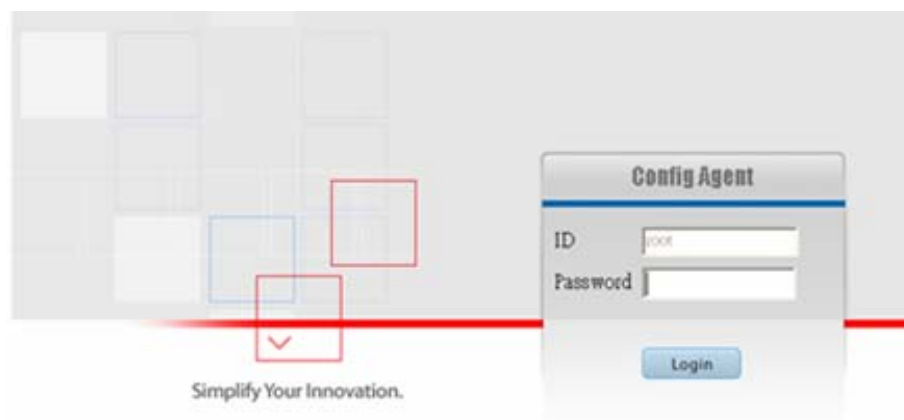
 Use The MAC address can be obtained from the label on the dongle or the packaging.

Unplug the power adapter and the LAN cable.

Insert the wireless dongle into the WiFi port located in the rear of the camera

Connect the IP camera and the PC using the mini USB cable.

Once the PC has recognized the IP camera, select "Config Wizard" in the program option list (or start it manually per instructions in the "Configuration Port" section).



Assuming no changes have been made to the administrator account, enter "pass" for the root password.

The "Status" screen will now have a "Wireless Information" section.



## Status

System Information	
Network Type	Static IP
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Default DNS	168.95.1.1

Wireless Information	
Enable	no
Mode	Station
SSID	(Not Set)
BSS Type	Infrastructure
Authentication	Open
Encryption	none
WEP Length	None

Quick Wizard

Change Password  
Factory Default

Click **Quick Wizard** to continue.

## Setup Wizard

Network

DDNS

Step 1 : Wireless Configuration

Enable

☐

Mode

Station

SSID

BSS Type

Infrastructure

Authentication

Open

Encryption

none

WEP Length

128bit

WEP Key

Phrase

Hex Digits

Passphrase

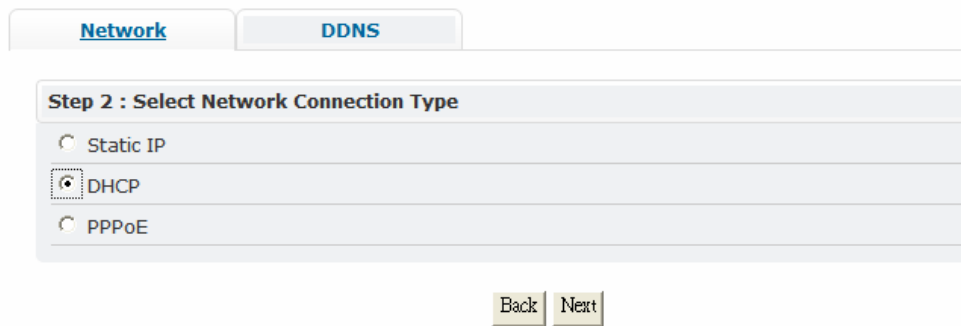
Back

Next

Check the “Enable” box, enter the information for a specific SSID, and click **Next**.  
Choose the appropriate network connection type for the wireless network. DHCP is used for this example.



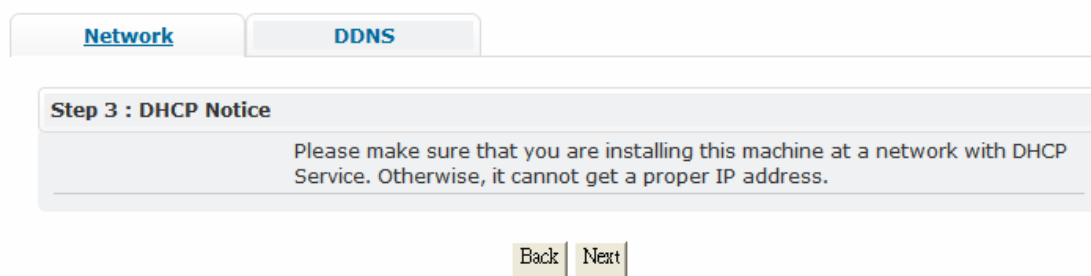
## Setup Wizard



The screenshot shows the 'Setup Wizard' interface with two tabs: 'Network' and 'DDNS'. The 'Network' tab is active. Below the tabs is a section titled 'Step 2 : Select Network Connection Type'. It contains three radio button options: 'Static IP', 'DHCP' (which is selected), and 'PPPoE'. At the bottom right of the wizard, there are two buttons: 'Back' and 'Next'.

Click **Next** to continue.

## Setup Wizard

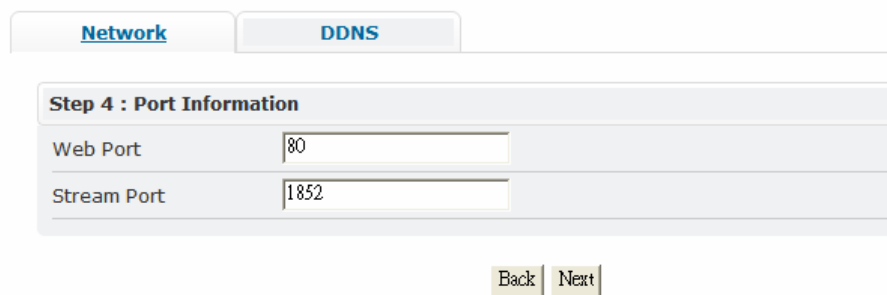


The screenshot shows the 'Setup Wizard' interface with 'Network' and 'DDNS' tabs. The 'Network' tab is active. The main area is titled 'Step 3 : DHCP Notice' and contains a message: 'Please make sure that you are installing this machine at a network with DHCP Service. Otherwise, it cannot get a proper IP address.' At the bottom right, there are 'Back' and 'Next' buttons.

Click **Next** to continue.

Change the ports if different from the default values.

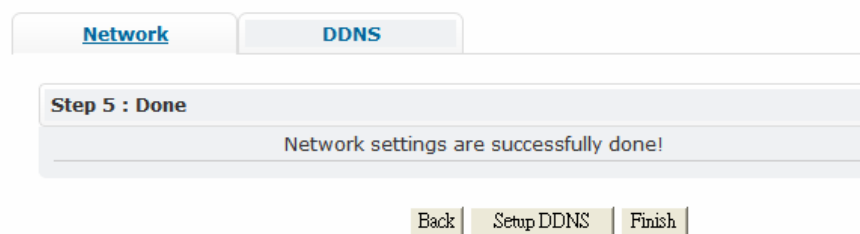
## Setup Wizard



The screenshot shows the 'Setup Wizard' interface with 'Network' and 'DDNS' tabs. The 'Network' tab is active. The main area is titled 'Step 4 : Port Information'. It contains two input fields: 'Web Port' with the value '80' and 'Stream Port' with the value '1852'. At the bottom right, there are 'Back' and 'Next' buttons.

Click **Next** to continue which will display a confirmation dialogue; click **OK**.

## Setup Wizard



The screenshot shows the 'Setup Wizard' interface with 'Network' and 'DDNS' tabs. The 'Network' tab is active. The main area is titled 'Step 5 : Done' and contains a message: 'Network settings are successfully done!'. At the bottom right, there are three buttons: 'Back', 'Setup DDNS', and 'Finish'.

Click **Finish** to exit the Quick Config utility.



Unplug the IP camera from the PC, and connect the power adapter to the IP camera.

After the camera starts, IP-Setup can be used to identify the IP address. However, the Quick Config doesn't display the MAC address, so this will need to be obtained from the wireless dongle or the packaging.

Using IP-Setup, the IP address can be found.

static	192.168.100.80	00-19-6C-81-50-AA	Chamber-8...	1.8.6	80	185
dhcp	192.168.0.157	00-22-2D-09-2F-85	L324000465	1.7.6	80	185
static	192.168.0.91	00-19-6C-01-14-1A	DQA-1	1.8.6	8081	185

This IP address can be used to access the IP camera's web interface.



## 9 ADDITIONAL INFORMATION

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For more information please reference the IP camera/video server Installation Guide. This manual is available on the product CD, or it can be downloaded from the Convision website, [www.convision.com](http://www.convision.com).

In addition, the latest firmware releases and other product documentation are available in the Download area.